

EPIDEMIOLOGIST

PURPOSE: The Epidemiologist is responsible for the development, implementation, analysis, planning, and review of surveillance systems for the Milwaukee Health Department (MHD). The position will provide biostatistics and quantitative analysis to be utilized in program evaluation, health services research, applied research, and academic research. These activities may include the coordination of surveillance, epidemiology, and communication activities relative to public health preparedness.

ESSENTIAL FUNCTIONS:

- Oversee public health surveillance systems, and conduct advanced quantitative analyses of MHD programs and service data.
- Provide leadership for the development of program and research-based grant proposals.
- Plan and direct studies to investigate disease, preventive methods, and treatments for disease.
- Conduct research to develop methodologies, instrumentation, and procedures.
- Provide expertise in the design, management, and evaluation of study protocols and health status questionnaires, sample selection, and analysis.
- Work with UWM School of Public Health to develop research and student training opportunities.
- Communicate research findings on diseases to health practitioners, policy makers, and the public.
- Monitor and report incidents of infectious diseases to local and state health agencies.
- Assist in the investigation of communicable disease outbreaks or parasites to determine cause and risk factors, progress, life cycle, or mode of transmission.
- Educate healthcare workers, patients, and the public about infectious and communicable diseases, including disease transmission and prevention.
- Identify and analyze public health issues and their impact on policies, scientific studies, or surveys.
- Write policies, program proposals, technical papers, publications and/or reports to address areas of need.
- Perform other job-related duties as assigned by Public Health Research and Policy Director.

NOTE: This position may require the working of non-standard hours and be subject to 24-hour/7 day emergency call-out at any time.

MINIMUM REQUIREMENTS:

1. Master's Degree in Biostatistics, Public Health, Epidemiology, or closely related field from an accredited college or university; **copies of transcripts (student copies acceptable) must be submitted with application.**
2. Two years of professional experience in epidemiology/related duties.
Note: Equivalent combinations of education and experience may also be considered.
3. Valid driver's license at time of appointment and maintained throughout employment.
4. Properly insured personal vehicle for use on the job is required, mileage reimbursement is provided.
5. Residency in the City of Milwaukee within six months of appointment and throughout employment.

DESIRABLE QUALIFICATIONS:

- ❖ Experience with emergency management services including public health preparedness and response.
- ❖ Experience publishing research relating to communicable or infectious disease.
- ❖ Knowledge of biologic, chemical, and radiological terrorism agents, methods, and mitigation.
- ❖ PhD in Biostatistics, Epidemiology, or closely related field.

KNOWLEDGE, SKILLS, ABILITIES AND OTHER CHARACTERISTICS:

- ❖ Knowledge of communicable and infectious disease surveillance method and systems.
- ❖ Knowledge of public health preparedness activities, trends, and best practices in epidemiology; ability to stay current.
- ❖ Strong observation, research planning, evaluation, and reasoning skills.
- ❖ Skill applying probability, statistical inference, linear and logistical regression, non-parametric, and survival analysis.
- ❖ Skill in effectively employing data analysis with statistical/project management software- e.g. SPSS, Stata, and GPS.
- ❖ Skill in developing and maintaining linked data sets.
- ❖ Ability to define problems, incorporate several abstract/concrete variables, collect data, and draw valid conclusions.
- ❖ Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.
- ❖ Ability to evaluate, interpret, and synthesize information from scientific results/ clinical data, professional journals, technical procedures, or government regulations.
- ❖ Ability to write reports, business correspondence, and procedure manuals.
- ❖ Ability to effectively present information and respond to questions from groups of managers, staff, and the public.
- ❖ Ability to use interpersonal skills to build and maintain good working relationships with a multi-cultural and multi-disciplinary staff, various City of Milwaukee officials, and other agencies.
- ❖ Ability to work independently and function as part of a team.
- ❖ Ability to maintain confidentiality.
- ❖ Ability to multi-task, be flexible, and willingness to interact with first responders- e.g. firefighters, law enforcement.
- ❖ Strong organizational and time-management skills.

SALARY RANGE (SG 09): \$60,809 to \$85,129 annually.

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